



High Strength 10X Zoom



ENGLISH

SALES NETWORK

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High-Resolution 10X Vandal-Proof Dome Camera SVD-4300 User's Manual

Thank you for purchasing a SAMSUNG CCD CAMERA. Before attempting to connect or operate this product, please read these instructions carefully and save this manual for future use.

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www.samsungtechwin.com www.samsungcctv.com P/No. : Z6806-0750-01B VAN 06. 07 Before operating the camera, confirm the camera model and proper input power voltage. In order to that you can understand this manual thoroughly, we'll introduce our model description.

SVD-4300 SERIES

NTSC MODEL
 SVD-4300N

•PAL MODEL SVD-4300P

MODEL DESCRIPTION

• SVD-4300 X

• SIGNAL SYSTEM N \rightarrow NTSC MODEL P \rightarrow PAL MODEL





The lightning flash with an arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

INFORMATION - This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING - Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

WARNING - To prevent electric shock and risk of fire hazards:

- ◆ Do NOT use power sources other than that specified.
- ◆ Do NOT expose this appliance to rain or moisture.

This installation should be made by a qualified service person and should conform to all local codes.

Features



The built-in SVD-4300 optical zoom lens is a highly durable component. It features auto focus, auto iris, and zoom functions.

SSNR (Samsung Super Noise Reduction)

By using built-in SSNR function manufactured by SAMSUNG TECHWIN, the amount of low illuminance noise has been significantly reduced, and the signal-to-noise ratio (S/N) as well as horizontal resolution have been improved, resulting in a clear and sharp image display even in the dark.



The built-in high sensitivity COLOR CCD enables a clear image even in 0.005Lux (Sens-up, color) or lower illumination.

High Resolution

Featuring 500TV line horizontal resolution in color mode and 570TV line horizontal resolution in BW mode, the camera features Sonv's 410,000 pixel CCD and captures clean, noiseless, high-quality images.



Day & Night

The camera automatically determines whether it is night time or day time, selecting operating mode automatically. The camera operates in color mode during day light conditions and BW mode in night conditions for clearer identification.

IP66 Approved / Dust and Rain **Besistant**

With dust and rain resistant design, the camera can be installed outside under building eaves or places that are exposed to the dust and rain.

RS-485 Function

The camera, using a RS-485 communication can remote control relate to 700M/F0CUS and OSD menu functions.

Sub Monitor Function

The sub monitor function enables easy adjustment of the camera angle within the monitoring range during its installation.

3-Axis camera mechanism

The SVD-4300 is especially incredibly flexible to install with its 3-axis camera construction. which makes the camera wall or slope mountable.

Miscellaneous Functions

Other miscellaneous functions of the camera include privacy zone masking, digital zoom, line lock synchronization(INT/LL), freeze, horizontal inversion, and user-configured presets.



Samsung Techwin cares for the environment at all product manufacturing stages to preserve the environment, and is taking a number of steps to provide customers with more environment-friendly products. The Eco mark represents Samsung Techwin's will to create environment-friendly products. and indicates that the product satisfies the EU RoHS Directive.

Warnings & Cautions

This information is provided to ensure your safety and to prevent any losses, financial or otherwise. Please read it carefully and use the product accordingly.

Warning/Attention/Special Mark Messages



Ignoring this information may result in material loss and/or serious personal injuries including death.



Indicates "Never Allowed."



Indicates "No Disassembling."



Indicates "Must Observe."



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

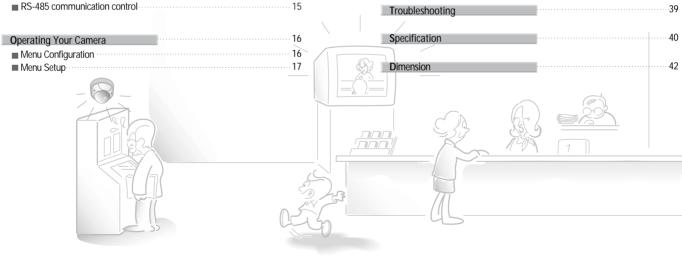
Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

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Precautions

Do not install the camera in extreme temperature conditions.



Do not install or use the camera in an environment where the humidity is high.



Only use the camera under conditions where temperatures are between -10°C and +50°C. Be especially careful to provide ventilation when operating under high temperatures.

It can cause the image quality to be

Do not drop the camera or subject them to physical shocks.



Never keep the camera face to strong light directly.

It can damage the CCD



It can cause malfunctions to occur.

Do not expose the camera to radioactivity.



If it is exposed to radioactivity, For heated CCD, it will be out of order



- · If the camera is exposed to spotlight or object reflecting strong light, smear or blooming may occur.
- · Please check that the power satisfies the normal specification before connecting the camera.

Do not install the camera under unstable lighting conditions.



Severe lighting change or flicker can cause the camera to work improperly.



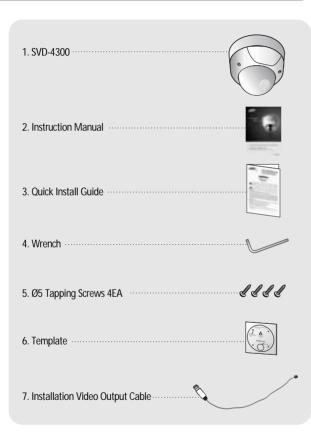
Do not touch the front lens of the

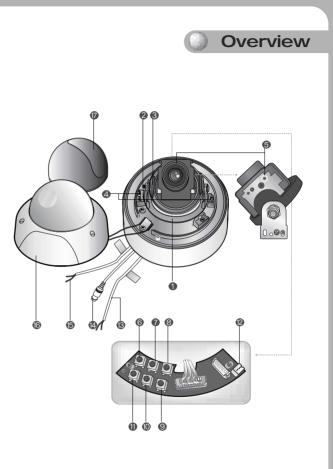
It is one of the most important parts of the camera. Be careful not to be stained by fingerprint.

camera.

poor.

Components and Accessories



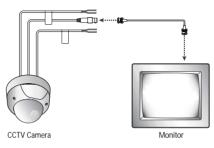


Overview 🤇

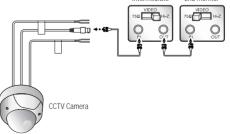
Connection

Connecting to Monitor

Connect the VIDEO-OUT jack to the VIDEO-IN jack of monitor.



- As the connecting method varies with the instruments, refer to the manual supplied with the instrument.
- If necessary, you can connect the monitor to the REMOTE jack on the back of your camera.
- Only connect the cable when the power is turned off.
- Set the 75Ω / Hi-Z selection switch as shown below if you have an intermediate device.
 Intermediate End monitor



Pan Base

control panning angle of camera
 (2) Rotate Base Holding Screw fix rotated position

Rotate Base

control rotating angle of camera

Pan Base Holding Screws (Color : Silver) fix panned position

GAuto Focus 10x Zoom Lens Module.

SET button

To access the main setup menu. Pressing the "SET" button locks the zoom control functions of these buttons and prompts the main setup menu.

AF button

To activate auto focus just once.

OUP (WIDE button)

To move the arrow indicator to up.(To widen the view : ZOOM OUT)

OOWN(TELE button)

To move the arrow indicator to down (To close in on a far object: ZOOM IN)

LEFT (F-NEAR button)

To move the arrow indicator to left. (To see a near object clearly)

RIGHT (F-FAR button)

To move the arrow indicator to right. (To see a far object clearly)

Wideo Output Terminal to Monitor

Power Input Jack

Video Output Jack

RS-485 Control Cable

The detailed description refers to p15

Dome Cover Shield Case

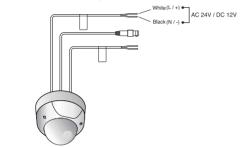
> Notes

The zoom postion is saved after 5 seconds when you set zoom function.

Connection

Connecting to Power

Use AC 24V / 300mA or DC 12V / 500mA power source.



For DC Power Type

• For DC power as the voltage drop according to the length of the cable in the above table, a camera may malfunction if there is an excessively long cable run. Resistance of copper wire [at 20C⁻(68F)]

Copper wire size (AWG)	#24 (0.22mm²)	#22(0.33mm²)	#20 (0.52mm²)	#18(0.83mm²)
Resistance (Ω / m)	0.078	0.050	0.030	0.018
Voltage Drop (V/m)	0.028	0.018	0.011	0.006

* Voltage for camera operation: 12V DC $\pm 10\%$

* Voltage drops in the above table are variable according to types of cable manufacturer.

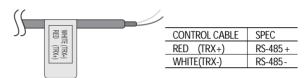


· Be sure to connect power only after all the installation is complete.

- · Note that AC or DC adaptor is not supplied with camera.
- Use the UL listed, class 2 power transformer of AC 24V adaptor.
- · Ground should be connected to the GND terminal.

RS-485 communication control

Connecting to RS-485 Control Cable



Using a RS-485 communication, it will be able to control the ZOOM/FOCUS and OSD menu at the SAMSUNG TECHWIN System Controller or DVR.

(1) The case which it controls from the PC

Using a RS-485 converter, It connects to RS-485 control cable outside camera and serial cable

EX) SERIAL PORT OF THE PC(COM1) — SERIAL CABLE -- RS-485 CONVERTER -- RS-485 CONTROL CABLE

(2) The case which it controls from the DVR or System Controller

It connects the RS-485 control cable in the connection terminal of 485 control boards which are connected with the DVR or System Controller.

485 CONTROL BOARD CONNECTION TERMINAL	RS-485 CONTROL CABLE
(+)CONNECTION TERMINAL	RED (TRX+)
(-)CONNECTION TERMINAL	WHITE(TRX-)

Notes

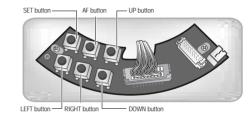
- When you construct external control systems for a camera control, please use to the SAMSUNG TECHWIN PROTOCOL or PELCO-D PROTOCOL.
- When you connecting to RS-485 control cable, please peel off the outer skin inside the RS-485 control cable.

Menu Configuration

	MAIN SETU	JP MENU	
CAM TITLE	• OFF	• ON	
WHITE BALANCE	ATW(OUTDOOR)	• AWC → SET	MANUAL
BACKLIGHT	• OFF	• LOW	MIDDLE
	• HIGH		
MOTION DET	• OFF	• ON	
FOCUS	MODE	• ZOOM TRK	
	ZOOM SPEED	• D-ZOOM	
	• DISP ZOOM MAG	• ZOOM POS INIT	
	LENS INIT	• END	
EXPOSURE	BRIGHTNESS	• IRIS	SHUTTER
	• AGC	SSNR	 SENS-UP
	• END		
SPECIAL	USER PRESET	PRIVACY	• DAY/NIGHT
	SYNC	COMM ADJ	• IMAGE ADJ
	• END		
RESET			
EXIT			

Menu Setup

Use the six buttons on back of the camera.



1. Press the SET button to access the main setup mode.

• Main setup menu is displayed on the monitor screen.

MA	IN SETUP	
►CAM TITLE	OFF	
WHIET BAL	. ATW.	l
BACKLIGHT	OFF	
MOTION DE	T OFF	
FOCUS 🖵		
EXPOSURE		
SPECIAL 🕳	J	
RESET		
EXIT		
		_

- 2. Select the desired feature using the UP or DOWN button.
 - Each pressing of the UP or DOWN button moves the indicator to the next or previous feature.
 - Move the arrow indicator to the desired feature item.

Operating Your Camera MAIN SETUP Select feature using the UP -----CAM TITLE OFF Change the status using the or DOWN button. LEFT or RIGHT button WHIET BOL ATM I OFF BACKLIGHT MOTION DET OFF FOCUS . L EXPOSURE 1 SPECIAL L RESET FXIT

Change the status of the selected feature using the LEFT or RIGHT button.
 When completed, move the arrow indicator to 'EXIT' and press the SET button.

> Notes

- Features marked with a → have an accessible submenu.
- Access the submenu by pressing the SET button.

CAM TITLE

Use this feature to designate a name for the camera, which will display on the monitor screen.

- Press the SET button to display the main setup menu and move the arrow indicator to 'CAM TITLE' using the UP or DOWN button.
- 2. Set 'CAM TITLE' to 'ON' using the LEFT or RIGHT button.



3. Press SET button.



- 4. You can enter up to 15 characters.
 - Move the cursor to the character entry field using the LEFT or RIGHT button.
 - Use UP, DOWN, LEFT, and RIGHT buttons to select a desired character.

CAM	TIT	LE	SET	UP
ABCI	EFG	HIC	KL	MNC
PQRS	TUV	wxy	Zal	bcċ
efgl	ıijk	lmr	lop	qrs
tuvv	syz	012	34	567
89() -/	#17		
			os	

- Press the SET button to confirm selection of the blinking character. The character is then saved, and the cursor in the entry field moves to the next position.
- Provide the steps I have a steps I have a step in the step in t

Notes

Correcting Mistakes

Move the cursor to 'CLR' and press the SET button to clear the entire entry. To modify one character, use \leftarrow or \rightarrow to position the cursor above the character to be modified and click the SET button after selecting the character to enter.

5. Select on screen position of the CAM TITLE.

Move the cursor to 'POS' and press SET button.



The CAM TITLE is displayed on the top-left of the monitor screen. (Default position)



Select the position by using the 4-directional buttons, then press the SET button to confirm the position.



6. When completed, move the cursor to 'END' and press SET button.

WHITE BALANCE CONTROL

Your camera provides three 'WHITE BAL' control modes for your choosing in adjusting the white balance.

- 1. Press the SET button to access the main setup menu and move the indicator to 'WHITE BAL' using the UP or DOWN button.
- 2. Set 'WHITE BAL' using the LEFT or RIGHT button.

SETUP
OFF
ATW 🖵
OFF
OFF

The three white balance control modes are as follows :

CATW(Auto Tracking White Balance):

- OUTDOOR: This mode can be used within the color temperature range 1800–10500'K (Ex: fluorescent light, outdoor, sodium vapor lamp or inside tunnels)
- INDOOR : This mode can be used within the color temperature range 3000K~10500'K.

CAWC (Auto White balance Control):

The white balance is automatically adjusted in a specific environment. In order to obtain the best result, press the SET button while the camera focuses on white paper. If the environment including the light source is changed, you have to adjust the white balance again.

OManual:

To fine adjust, select the Manual mode. You can increase or decrease the red or blue factor while monitoring the difference on the screen. Set to 'MANUAL' mode and press the SET button. Increase or decrease the value for red(R-Gain) and blue(B-Gain), watching the color of the picture, and press the SET button when you obtain the best color.

(Notes)

Proper White Balance may not be obtained under the following conditions.
 When the scene contains mostly high color temperature object, such as a blue sky or sunset.

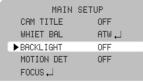
When the scene is dim.

If your camera directly faces a fluorescent lamp or is used in an environment of varying lighting conditions.

BACKLIGHT

When there is a strong backlight behind the object, clear images of the background as well as the object can still be obtained by using the BACKLIGHT function.

- Please position the arrow to point to 'BACKLIGHT' on the SETUP menu by using the UP and DOWN buttons.
- 2. Please select the mode you wish to operate by pressing the LEFT or RIGHT button.



CHIGH/MIDDLE/LOW: You can adjust the sensitivity of Backlight Compensation. COFF: BACKLIGHT function does not operate.





Backlight OFF

MOTION DETECTION

This product has a feature that allows you to observe movements of objects in 4 different areas on the screen, and the words 'MOTION DETECTED' appear on the screen when movement is detected; hence a single individual can conduct supervision efficiently. The camera detects an object's movement by sensing disparity of outline, and level of brightness and color.

- •Please press the SETUP button.
- -OFF: MOTION DETECTION mode is cancelled.

-ON: Any motion in the selected areas is observed.

- •Please press the SETUP button.
- -OFF: MOTION DETECTION mode is cancelled. -ON: Any motion in the selected areas is observed.



- •Please select the area you wish to observe from the 4 areas in AREA SEL mode.
- •Please select ON mode for the chosen area.
- Please adjust the size of the area to be observed by using the UP, DOWN, LEFT or RIGHT button.

•Please press the SETUP button to save changes and complete the setting.

Notes

Tips on Using the Motion Detection Feature

- The feature may not function properly under flickering light conditions.
- The camera interprets sudden changes in lighting and subsequent change in brightness of an object as motion.
- With the feature enabled, other algorithms may require additional time to operate than usual.
- This system does not guarantee prevention of fire or theft. The manufacturer shall not be held responsible for any accident or damage incurred.

COLOR CCD CAMERA 22 User's Manual

FOCUS

	MAIN	SETUP
CF	M TITLE	OFF
WH	HET BAL	ATW 🖵
BP	CKLIGHT	OFF
MC	TION DET	OFF
►FC	icus 🖵	
E≻	(POSURE 🖵	
SF	ECIAL 🖵	

- Press the SET button to access the main setup manu and then position the indicator over FOCUS using the UP or DOWN button.
- 2. Press the SET button.
 - OMODE: You can select the most suitable zoom mode. Move the arrow indicator to 'MODE' using UP or DOWN button.

	FOCUS	SETUP
►MODE		AUTO⊷
ZOOM	TRK	ON
ZOOM	SPEED	FAST
D-200	DM	OFF
DISP	ZOOM MA	G OFF

•AUTO : Select AUTO and press the SET button to confirm. Increase or decrease

optical zoom (ZOOM) or digital zoom (D-ZOOM) positions using the UP or DOWN button while verifying the changes on screen. Enabling D-ZOOM (ON) means that digital zoom will activate once optical zoom ends. Focus is automatically adjusted with moving zoom.

ZOOM/FOC	US POS S	SETUP
†:TELE	+:WII	DE
Press SI	ET to Ret	turn

 ONE PUSH : Focus is automatically adjusted just once, after zoom position is changed. Select ' ONE PUSH' and press the SET button to confirm. Increase or decrease optical zoom (ZOOM) or digital zoom (D-ZOOM) positions using the directional buttons



while verifying the changes on screen. Press the SET button once desired image guality is obtained.

 MANUAL : Select 'MANUAL' and press the SET button to confirm. Increase or decrease optical zoom (ZOOM) or digital zoom (D-ZOOM) positions using the directional buttons while verifying the changes on screen. Press the SET button once desired image quality is obtained. Focus can be manually adjusted, independent of moving zoom.



- COOM TRK: You can select to use 'ZOOM TRK' Move the arrow indicator to 'ZOOM
 - TRK' using UP or DOWN button. Set 'ZOOM TRK' to on using LEFT or RIGHT button.

	FOCUS	SETUP	
MODE		AUTO 🖵	
▶200M	TRK	ON	
ZOOM	SPEED	FAST	

ZOOM SPEED: Configure zoom tracing speed using this feature. Position the indicator over 'ZOOM SPEED' using the UP or DOWN button and then set to desired mode using the LEFT or RIGHT button.

	FOCUS	SETUP	
MODE		AUTO⊷	
ZOOM	TRK	ON	
►ZOOM	SPEED	FAST	
D-Z00	DM	OFF	
►ZOOM	SPEED	ON FAST	

•FAST: To move zoom fast.

•SLOW: To move zoom slowly.

> Notes

- The 'ZOOM SPEED' mode cannot be used if 'MODE' is set to 'AUTO' and 'ZOOM TRK' is 'ON'.

CD-ZOOM: Configure magnification limit from x2−x10 using this feature. Position the indicator over 'D-ZOOM' using the UP or DOWN button. Set 'D-ZOOM' to 'ON' and press the SET button to confirm.

	FOCUS SE	TUP	
MODE		AUTO 🖵	
ZOOM	TRK	ON	
ZOOM	SPEED	FAST	
►D-Z00)M	ON	
DISP	ZOOM MAG	OFF	

 \cdot Set 'ZOOM LIMIT' to the desired level using the LEFT or RIGHT button.



DISP ZOOM MAG: Use this feature to display the current zoom magnification level on screen. Position the indicator over 'DISP ZOOM MAG' using the UP or DOWN button. Then set to ON using the LEFT or RIGHT button.

	FOCUS SE	TUP
MODE		AUTO 🖵
ZOOM	TRK	ON
ZOOM	SPEED	FAST
D-ZO	OM	OFF
▶DISP	ZOOM MAG	ON

© ZOOM POS INIT: Configure zoom position using this feature. Position the indicator ove 'ZOOM POS INIT' using the LEFT or RIGHT button.

	FOCUS SE	TUP
MODE		AUTO⊷
ZOOM	TRK	ON
ZOOM	SPEED	FAST
D-Z0	MC	OFF
DISP	ZOOM MAG	OFF
►ZOOM	POS INIT	ON
LENS	INIT	OFF

Notes

· Preset setting has priority over a ZOOM POS INIT setting.

LENS INIT : Use this feature to initialize the lens(1x, WIDE). Position the indicator over LENS INIT. using the UP or DOWN button. Press the SET button to confirm.

	FOCUS SE	TUP	
MODE		AUTO 🖵	
ZOOM	TRK	ON	
ZOOM	SPEED	FAST	
D-Z00	MC	OFF	
DISP	ZOOM MAG	OFF	
ZOOM	POS INIT	OFF	
▶LENS	INIT	ON	
END			

END: To revert to the main setup menu.

EXPOSURE

	EXPOSURE	SETUP
	▶BRIGHTNESS	25
	IRIS	AUTO
	SHUTTER	
	AGC	NORMAL
	SSNR	LOW
	SENS-UP	OFF
	END	
-		

- Press the SET button to access the main setup menu and then position the indicator over 'EXPOSURE' using the UP or DOWN button.
- 2. Press the SET button to confirm.
 - BRIGHTNESS: Use this feature to adjust image brightness. Position the indicator over 'BRIGHTNESS' using the UP or DOWN button. Then increase or decrease brightness level using the LEFT or RIGHT button while verifying the changes on screen. Set END once desired level is obtained.

EXPOSURE	SETUP
▶BRIGHTNESS	25
IRIS	AUTO
SHUTTER	
AGC	NORMAL
SSNR	LOW
SENS-UP	OFF
END	
	_

IRIS: Set 'IRIS' to 'AUTO' or 'MANUAL'. Position the indicator over 'IRIS' using the UP or DOWN button and then select the desired iris mode using the LEFT or RIGHT button.

EXPOSURE	SETUP	
BRIGHTNESS	25	
▶IRIS	AUTO	
SHUTTER		
AGC	NORMAL	

- •AUTO: The iris is automatically activated upon illumination.
- MANUAL: Manual iris configuration. Set 'IRIS' to 'MANUAL' using the LEFT or RIGHT button and then press the SET button. Increase or decrease iris level using the LEFT or RIGHT button while verifying the changes on screen.

IRIS MAI	NUAL SETUP
IRIS VAL	100
END	

• SHUTTER : Control image brightness by adjusting shutter speed.

 Position the indicator over 'SHUTTER' using the UP or DOWN button. Then select the desired shutter mode (A.FLK, ESC, MANUAL) using the LEFT or RIGHT button.

EXPOSURE	SETUP
BRIGHTNESS	25
IRIS	AUTO
▶ SHUTTER	
AGC	NORMAL
SSNR	LOW
SSNK	LUW

- •A.FLK (NTSC: 1/100, PAL: 1/120): Flicker-free mode
- •ESC: Automatic shutter speed setting (optimal)
- •MANUAL: Manual shutter speed setting
- 2. If you choose 'MANUAL', select the optimal shutter speed.
 - In MANUAL mode, the optimal shutter speed needs to be designated. Select from 1/60 to 1/120,000 (NTSC) or from 1/50 to 1/120,000 (PAL).
 - * 'Sens-Up' mode can be configured manually (2x to 128x).
 - \cdot Verify changes made to the shutter speed by referencing to changes in on screen brightness.



3. Press the SET button to complete.



- Image may become unstable if the camera is set to 'ESC' mode and faces a strong fluorescent light.
- Under 'ESC' mode, the brightness can be adjusted using the LEFT or RIGHT button.
- The WDR feature is not available under MANUAL mode.
- · Sens-up is disabled under 'MANUAL' or 'A.FLK' mode.

OAGC (Auto Gain Control): For brighter images.

1. Position the indicator over 'AGC' using the UP or DOWN button.

- 2. Set 'AGC' to the desired mode using the LEFT or RIGHT button.
 - HIGH : Wide range gain value adjustment
 - NORMAL : Normal range fain value adjustment.
 - OFF : Disabled

1		
	EXPOSURE	SETUP
	BRIGHTNESS	25
	IRIS	AUTO
	SHUTTER	
	►AGC	NORMAL
	SSNR	LOW
	SENS-UP	OFF

SSNR(Samsung Super Noise Reduction): On screen noise reduction.

1. Position the indicator over 'SSNR' using the UP or DOWN button.

2. Set 'SSNR' to the desired mode using the LEFT or RIGHT button.

- LOW : Low noise reduction
- MIDDLE : Medium noise reduction
- HIGH : High noise reduction
- OFF : Disabled

EXPOSURE	SETUP
BRIGHTNESS	25
IRIS	AUTO
SHUTTER	
AGC	NORMAL
▶SSNR	LOW
SENS-UP	OFF

Notes

Changing 'AGC' setting from NORMAL to HIGH results in greater sensitivity, as well as on screen noise.

Setting 'AGC' to OFF locks 'SSNR' configuration.

- **©SENS-UP**: This feature ensures clear images at night or under low lighting conditions.
- 1. Position the indicator over 'SENS-UP' using the UP or DOWN button.
- 2. Set 'SENS-UP' to the desired mode using the LEFT or RIGHT button.
 - AUTO : Select this mode for use in night time or under low lighting conditions.
 - OFF : Disabled

	EXPOSURE	SETUP
	BRIGHTNESS	25
	IRIS	AUTO
	SHUTTER	
	AGC	NORMAL
	SSNR	LOW
	▶SENS-UP	OFF
	END	
-		

- Notes

• Once 'AUTO' mode is set, the user can configure Sens-Up limit by increasing /decreasing the shutter speed (e.g.: x2,...,x32, x64,..., x128).

• Enabling Sens-Up increases camera sensitivity and may result in additional noise and/or other phenomenons. This is normal.

SPECIAL

SPECIAL	SETUP
▶USER PRESET	OFF
PRIVACY	OFF
DAY/NIGHT	COLOR₊
SYNC	INT
COMM ADJ⊷	
IMAGE ADJ⊷	
END	

1. Press the SET button to access the main setup menu and then position the indicator over 'SPECIAL' using the UP or DOWN button.

2. Press the SET button to confirm.

OUSER PRESET:

Preset user-designated configurations using this feature. Position the indicator over 'USER PRESET' using the UP or DOWN button and then set to 'ON' using the LEFT or RIGHT button. Press the SET button to confirm.

SPECIAL	SETUP
▶USER PRESET	OFF
PRIVACY	OFF
DAY/NIGHT	COLOR⊷
SYNC	INT
COMM ADJ⊷	
IMAGE ADJ₊⊣	
END	

• PRESET NO: Up to eight different preset configurations are supported.

USER PRESET	SETUP	
▶PRESET NO.	NO. 1	
PRESET MODE	OFF	
PRESET SAVE		
PRESET CLEAR		
END		
PRESET DE	FINED	
		_

• PRESET MODE: Configure initial settings under FOCUS, EXPOSURE, etc.

USER	PRESET MODE SETUP
FOCU	r s
EXPO	SURE J
ETC .	L
END	

• PRESET SAVE: Save configured preset.

USER PRESET	SETUP
PRESET NO.	NO. 1
PRESET MODE	OFF
▶PRESET SAVE	
PRESET CLEAR	
END	
PRESET DE	EFINED

• PRESET CLEAR: Clear configured preset.

USER PRESET	SETUP
PRESET NO.	NO. 1
PRESET MODE	OFF
PRESET SAVE	
▶PRESET CLEAR	
END	
PRESET DE	FINED

• END: Revert to the SPECIAL SETUP menu.

USER PRESET	SETUP
PRESET NO.	NO. 1
PRESET MODE	OFF
PRESET SAVE	
PRESET CLEAR	
▶END	
PRESET DE	FINED

• PRIVACY: Mask privacy area using this feature. The mask area expand/contract upon the zoom position.

SPECIAL	SETUP
USER PRESET	OFF
▶PRIVACY	OFF
DAY/NIGHT	COLOR₊
SYNC	INT
COMM ADJ⊷	

 GROUP SEL 	: Choose up to eight groups. Each group can consist of four mask		
	areas.		
 AREA SEL 	: Configure eight mask areas.		
 AREA MODE 	: Mask area display.		
 MASK TONE 	: Adjust desired mask color level.	SET PRIVACY GROUP SEL GROUP 1	
• TOP	: To move the mask area up.	AREA SEL AREA 1 AREA MODE ON	
 BOTTOM 	: To move the mask area down.	TOP 45 WINNING	
• LEFT	: To move the mask area left.	LEFT 45 doministration RIGHT 95 odministration	
RIGHT	: To move the mask area right.		

CDAY/NIGHT: Select from COLOR, BW or AUTO modes.

	SPECIAL	SETUP
	USER PRESET	OFF
	PRIVACY	OFF
	▶DAY/NIGHT	COLOR⊷
	SYNC	INT
	COMM ADJ⊷	
	IMAGE ADJ↓	
	END	
<. I		

- COLOR : Color mode.
- B/W : BW mode.
- AUTO1, 2: The camera automatically detects lighting conditions and selects the mode accordingly. Auto 1 mode is switched to IR Cut Filter more lightning conditions than Auto 2.



· When selecting AUTO2 mode, the AGC is fixed at HIGH mode.

SYNC : Two synchronization modes are available INTERNAL and EXTERNAL LINE-LOCK. In LINE-LOCK mode, it synchronizes the camera's video out signal to the external SYNC signal.



- INT : Internal synchronization
- LL : External line-lock synchronization
- · If you choose 'LL', you can adjust the desired phase. Press the SET button.



 \cdot You can adjust the desired phase from 0 to 359.



- For NTSC models, the line-lock mode can be used if the external SYNC signal frequency is at 60Hz.
- For PAL models, the line-lock mode can be used if the external SYNC signal frequency is at 50Hz.

COMM ADJ: Use this feature to select communication protocol . Position the indicator over 'COMMUNICATION' using the UP or DOWN button.



- CAM ID : Assign ID number to the camera. It is restricted available to set ID from 1 to 255.
- DISP CAM ID : Displays camera ID on top left corner of the screen.
- BAUD RATE : Configure baud rate from 9600, 19200, 38400, 57600bps.
- UART MODE : Configure parity bit to NONE, EVEN, or ODD. Data bit is set to 8bit, and stop bit to 1bit. Set the UART MODE to EVEN if using the Remote Controller.
- RET PKT : Used to transfer a packet.
- END
- **OIMAGE ADJ:** Includes image quality or special function factors.

IMAG	E SETUP
▶ FREEZE	ON
H-REV	OFF
V-REV	OFF
SHARPNESS	ON .
COLOR GAIN	50
END	

- FREEZE : Use this feature to freeze capture an image.
- H-REV: Use this feature to horizontally inverse the screen.
- V-REV: Use this feature to vertically inverse the screen.
- SHARPNESS : Increasing this value sharpens object edges. Too high of a setting, however, produces noise and may obscure the image.
- COLOR AGAIN : Adjusting this value affects the chroma level only; the burst level is unaffected.

CEND: evert back to the USER PRESET menu.

RESET

To reset your camera to factory default condition.

EXIT

To finish setup menu.

Refer to the following table if you are experiencing trouble with your camera. Contact an authorized technician if the table does not provide you with a solution to the trouble.

Troubleshooting

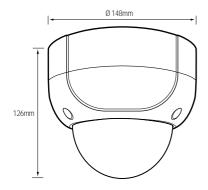
Problem	Solution
No display	 Check the power cable and the wiring between the camera and the monitor. Ensure proper video cable connection (Video Out Jack).
Dim display	 The lens could be dirty. Clean with a soft, clean piece of cloth. Adjust monitor settings. Adjust camera position if exposed to a strong light source.
Dark display	• Adjust the monitor's contrast level. • Set the intermediate device, if in use, to 75Ω / Hi-z (refer to p.13).
The camera is not functioning properly and its surface is hot	Check the power source for compliance with specifications.
Motion Detection feature is not active.	Ensure that the feature is set to ON.
Uneven colors Flickering	 Adjust and configure WHITE BAL. The camera may be facing the sun or a fluorescent light. Adjust the position of the camera.
Can't select LL mode	• The camera may be connected to a DC power source. Connect to an AC power source.
LL is not function properly.	Check external SYNC signal frequency (should be 60Hz for NTSC, 50Hz for PAL).

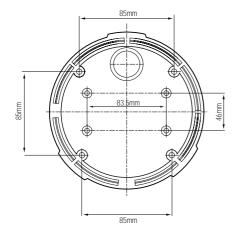
Specifications

		SVD-4300N	SVD-4300P	
	Input Voltage	AC24V(±10%), DC 12V(±10%)		
P O W E R	Input Current	290mA(Steady-state)		
		460mA(Zoom, Focus, Day&night motor operating)		
	Power Consumption	DC12V/ AC24V - 3.5W Normal, - 5.5W Max(Zoom, Focus, Day&Night motor operating)		
ĸ				
C C	Size	1/4 inch, Interline Transfer CCD		
	Total Pixels	811(H) x 508(V)	795(H) x 596(V)	
D	Effective Pixels	768(H) x 494(V)	752(H) x 582(V)	
OPT-CS	Optics	10X, f=3.8 to 38.0mm(F1.8)		
	Min. Focus Distance	1,500mm		
	D. ZOOM	OFF/ON (X2 ~ X10)		
	Angle Field of view	H : Appr. 51.2 (Wide) to 5.58 (Tele)/V : Appr. 39.3 (Wide) to 4.27 (Tele)		
S y n	Scanning System	2:1 Interlace		
y n	Synchronization	Internal / Line-Lock		
C.	Frequency	H: 15.734KHz / V: 59.94Hz	H: 15.625KHz / V : 50.00Hz	
	Resolution	500 TV Lines(Min.) : Color (WIDE) / 570 TV Lines(Min.) : B/W (WIDE)		
	Video Output	CVBS : 1.0Vp-p/75Ω(VBS EXT)		
	S/N (Y signal)	50 dB (AGC Off, Weight ON)		
	Min. Illumination	0.7Lux@F1.8, 0.005Lux@F1.8(Sens-up), Color/0.02Lux@F1.8(B/W)		
	Backlight Compensation	LOW/MIDDLE/HIGH/OFF Selectable		
	Day & Night	Auto1, Auto2, COLOR, B/W(ICR)		
	Gain Control	Normal, High, OFF Selectable		
Е	White Balance	ATW (INDOOR(3,000K~10,500K), OUTDOOR (1,800K~10,500K))/AWC/MANUAL		
	Electronic shutter	AUTO (X128~1/60sec~1/120,000sec)	AUTO (X128~1/50sec~ 1/120,000sec)	
L E C.	speed	Sens-up and Sens-up Limit is	Sens-up and Sens-up Limit is	
U.	·	selectable, Flickerless	selectable, Flickerless	
	0.S.D		lt-In	
	Motion Detection	ON/OFF(4 Programmable Zone per Screen)		
	SSNR	Low, Middle, High, Off		
	Focus	Auto / Manual / One push		
	Zoom Movement Speed	1.67sec : Wide to Tele	1.75sec : Wide to Tele	
	IRIS Control		Manual	
	Lens Initialize		lt-In	
	Camera Title	OFF/ON (Display	ed 15 characters)	

		SVD-4300N	SVD-4300P
	Communication	RS485 External Control(TRX+,TRX-) 9600,19200, 38400 and 57600bps	
	E SAMSUNG TECHWIN PROTOCO		table
			PROTOCOL AVAILABLE
L E C.		PELCO-D PROTOCOL AVAILABLE	
Č.	Privacy Function	ON/OFF(32Zones, It consists of 8Group 4Programmable Zone per Screen)	
	FLIP	Vertical, Horizontal, Vertical-Horizontal, OFF Selectable	
	Preset	8 Positions	
Opera	ting	-10°C to +50°C / 20% to 80% RH	
Tempe	erature/Humidity		
Dimer	nsion	Ø150 x 130mm(H)	
Weigh	nt	1.4 kg	

Dimension (





DECLARATION OF CONFORMITY

Application of Council Directive(s) Manufacturer's Name Manufacturer's Address

European Representative Name European Representative Address Equipment Type/Environment Model Name Beginning Serial NO. Year of Manufacture Conformance to

89 / 336 / EEC SAMSUNG TECHWIN CO., LTD SAMSUNG TECHWIN CO., LTD 42, SUNGJU-DONG CHANGWON-CITY, KYUNGNAM, KOREA, 641-716 CCTV Camera SVD-4300P S6700001 2006. 7. 1 EN 50081-1 : 1992 EMC-Directive 89/336 EEC and 92/31/EEC EN 50130-4 : 1996

We, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s).

Manufacturer	SAMSUNG TECHWIN CO., LTD	Legal Representative in Europe
Signature	Young Tack, SON	Signature
Full Name	YOUNG TAEK SON	Full Name
Position	QUALITY CONTROL MANAGER	Position
Place	CHANGWON, KOREA	Place
Date	2006. 7. 1	Date